



TITLE: MEMORY DEVICE HAVING TERMINALS FOR TRANSFERRING MULTIPLE TYPES OF DATA
 INVENTOR'S NAME: JOO S. CHOI
 SERIAL NO.: 10/782,717 DOCKET NO.: 303.880US1

REPLACEMENT SHEET

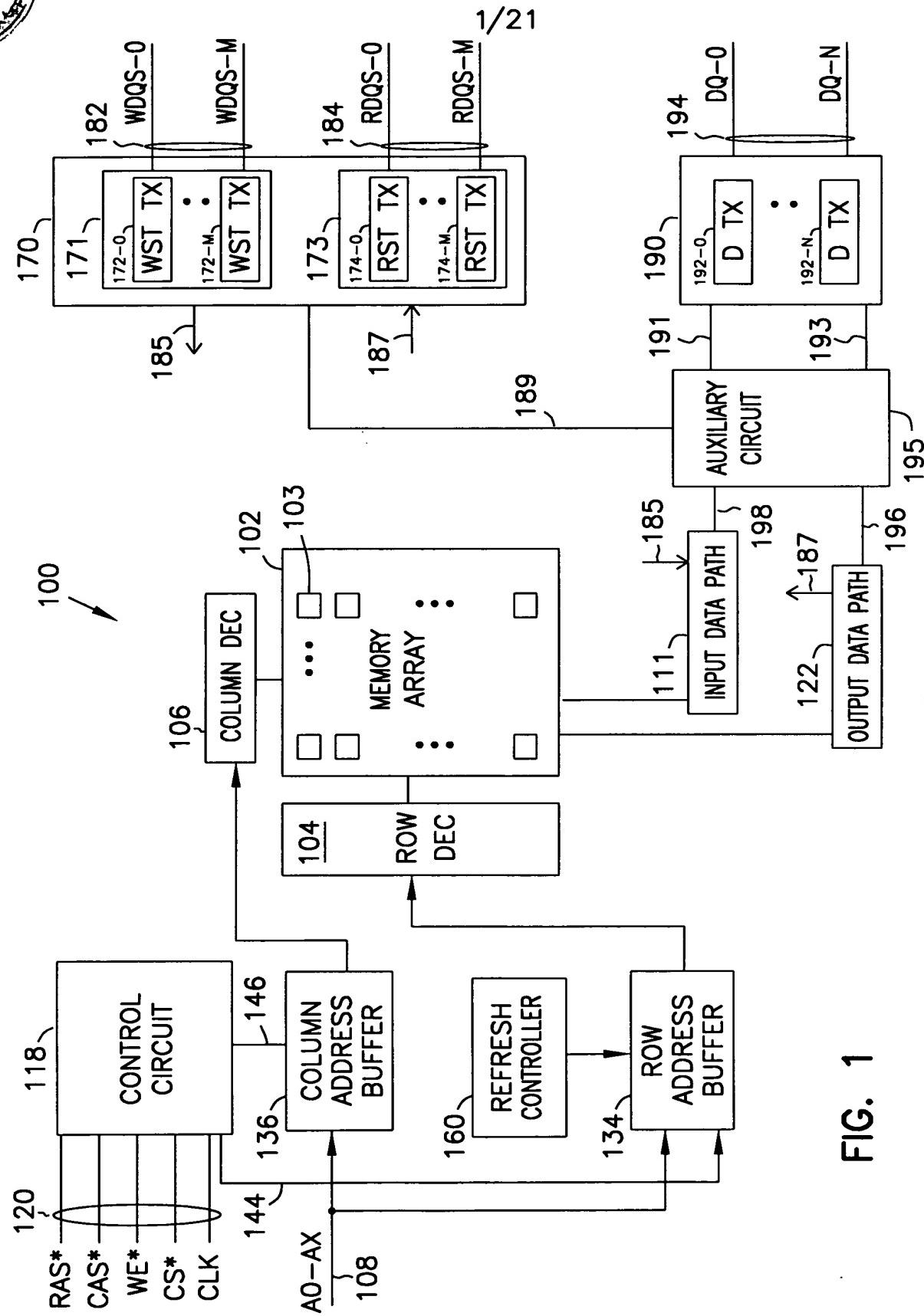


FIG. 1

TITLE: MEMORY DEVICE HAVING TERMINALS FOR TRANSFERRING MULTIPLE TYPES OF DATA
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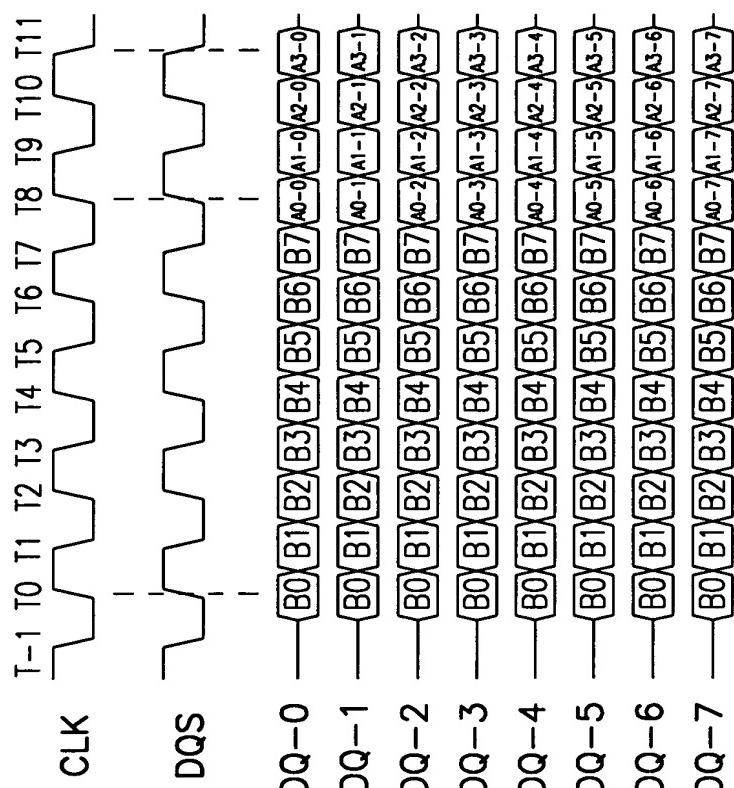
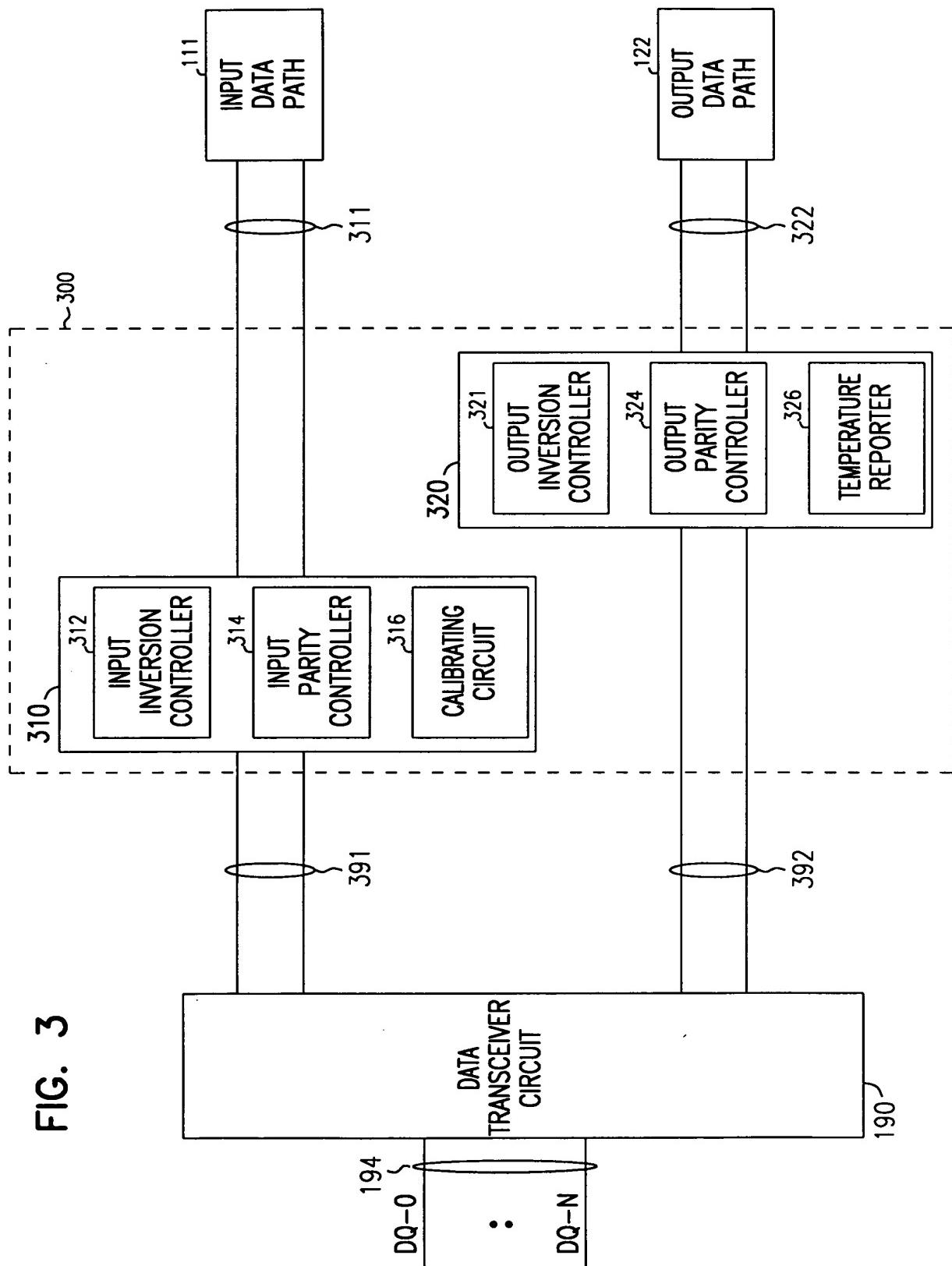


FIG. 2

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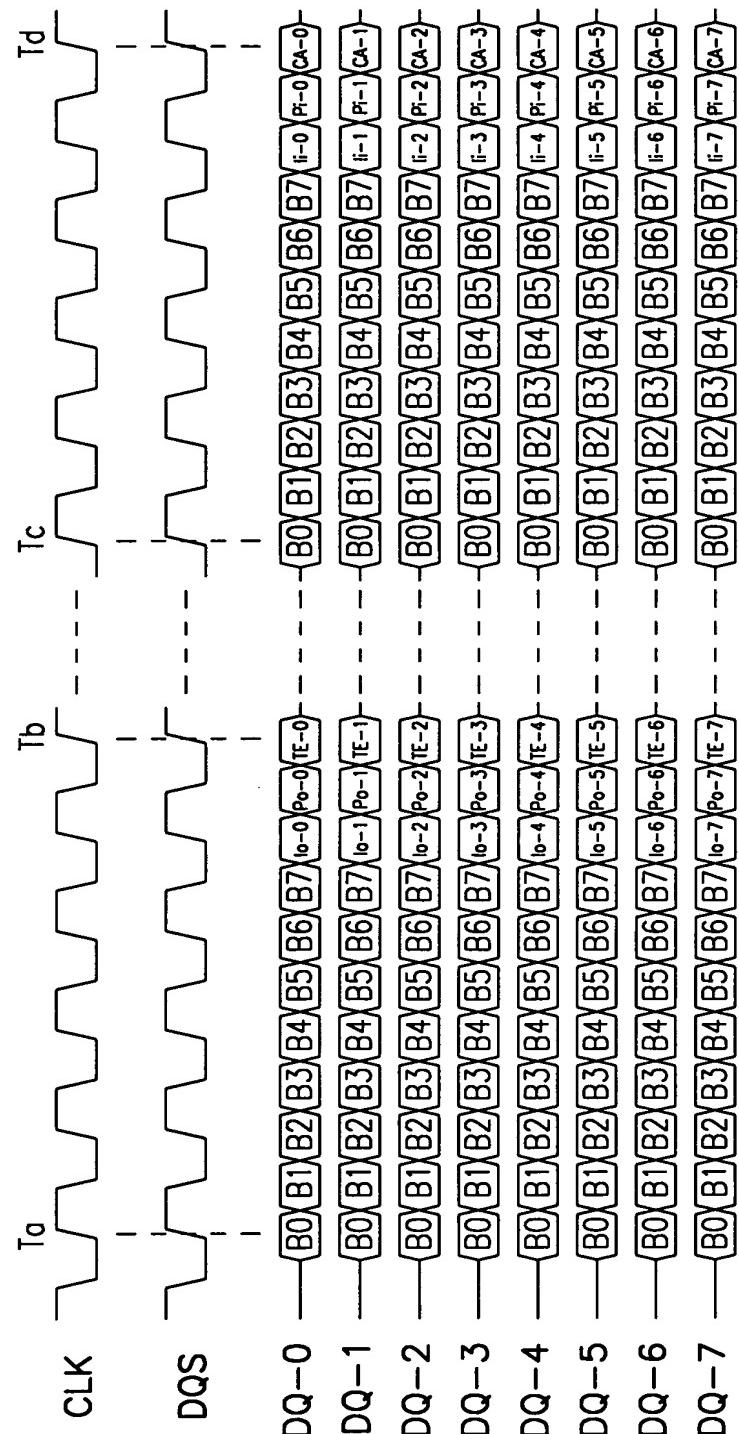
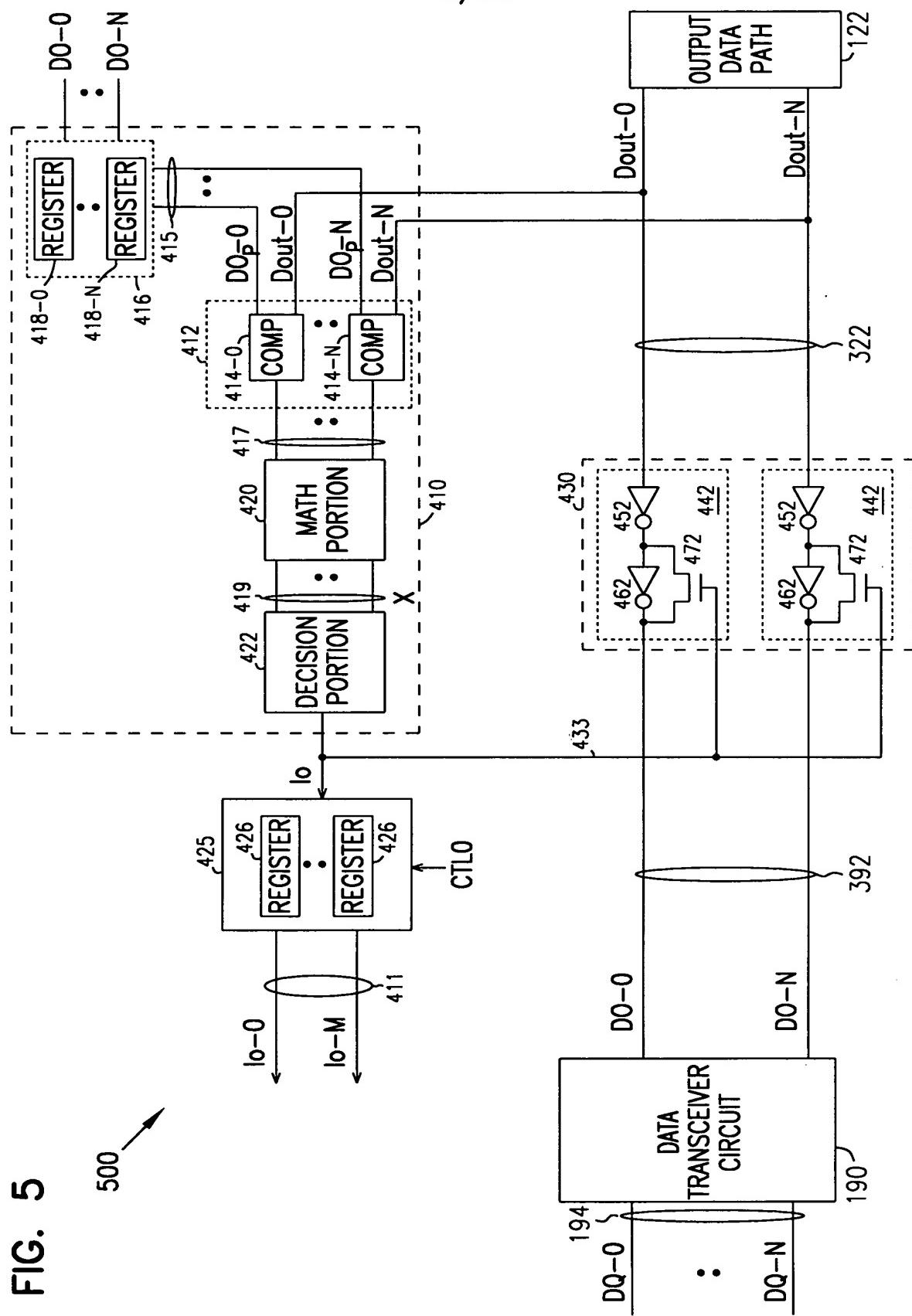


FIG. 4

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ROW 1 { Dout-0 TO Dout-7
INVERTED (Dout-0 TO Dout-7)

DO _P	80 80 80 80 80 80 80	lo	X	Y
00000111				
11111000	1	8		0
00000111				
11110000	1	7		1
00001111				
11100000	1	6		2
00011111				
11000000	1	5		3
00111111				
10000000	0	4		4
01111111				
00000000	0	3		5
11111111				
00000001	0	2		6
11111110				
00000011	0	1		7
11111100				
00000111	0	0		8
11111000				
00001111	0	1		7
11110000				
00111111	0	2		6
11000000				
00111111	0	3		5
11000000				
01111111	0	4		4
10000000				
11111111	1	5		3
00000000				
11111110	1	6		2
00000001				
11111100	1	7		1
00000011				

ROW 6 { Dout-0 TO Dout-7
INVERTED (Dout-0 TO Dout-7)

ROW 16 { Dout-0 TO Dout-7
INVERTED (Dout-0 TO Dout-7)

FIG. 6

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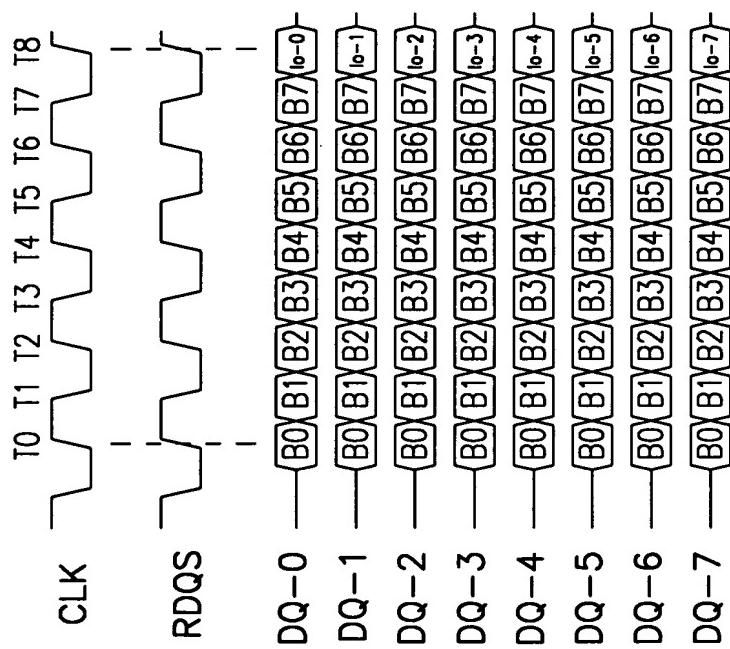


FIG. 7

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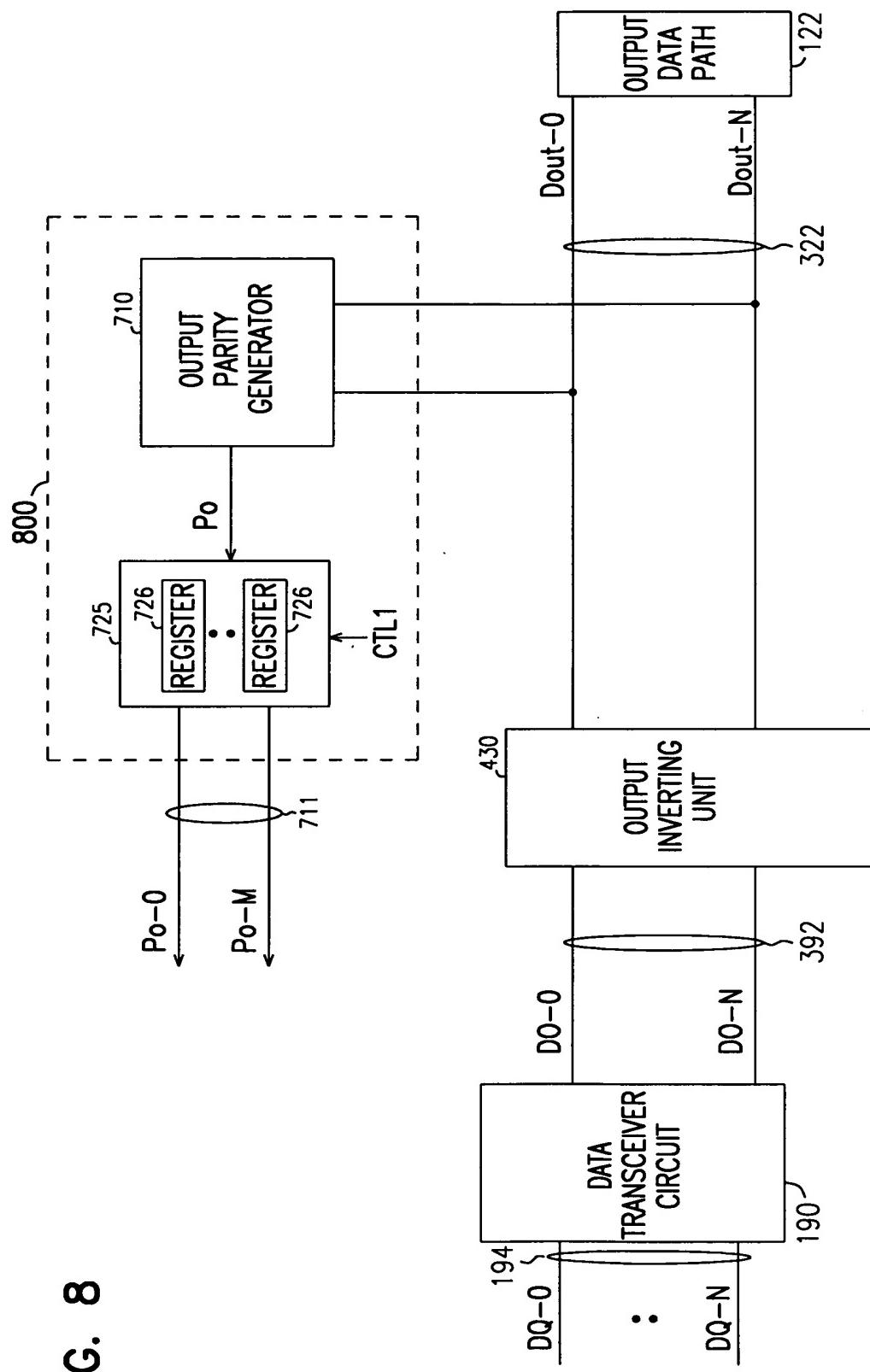


FIG. 8

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Dout-0 TO Dout-7		PO
	B0 B1 B2 B3 B4 B5 B6 B7	
ROW 1	00000000	0
	00000001	1
ROW 3	00000011	0
	00000111	1
	00001111	0
ROW 6	00011111	1
	00111111	0
	01111111	1
	11111111	0
	11111110	1
	111111100	0
	11111000	1
ROW 14	11100000	0
	11000000	1
	10000000	0

FIG. 9

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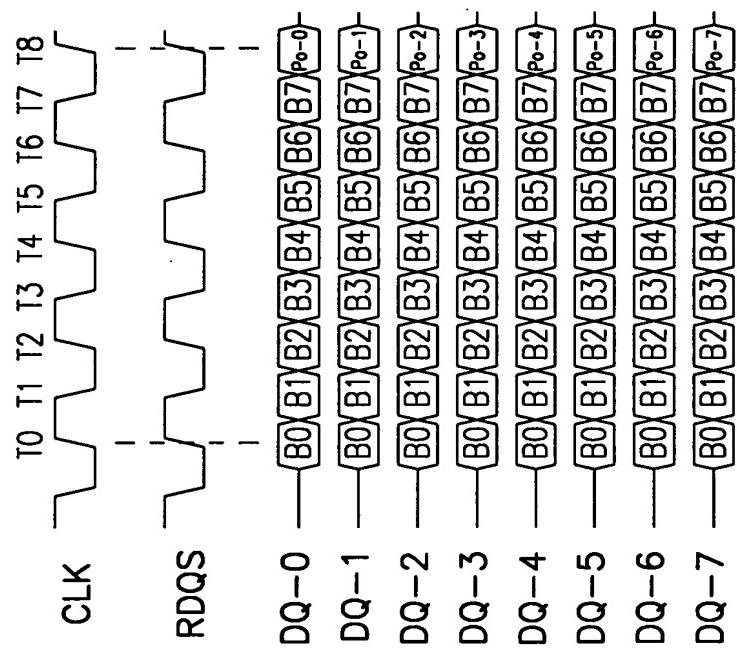


FIG. 10

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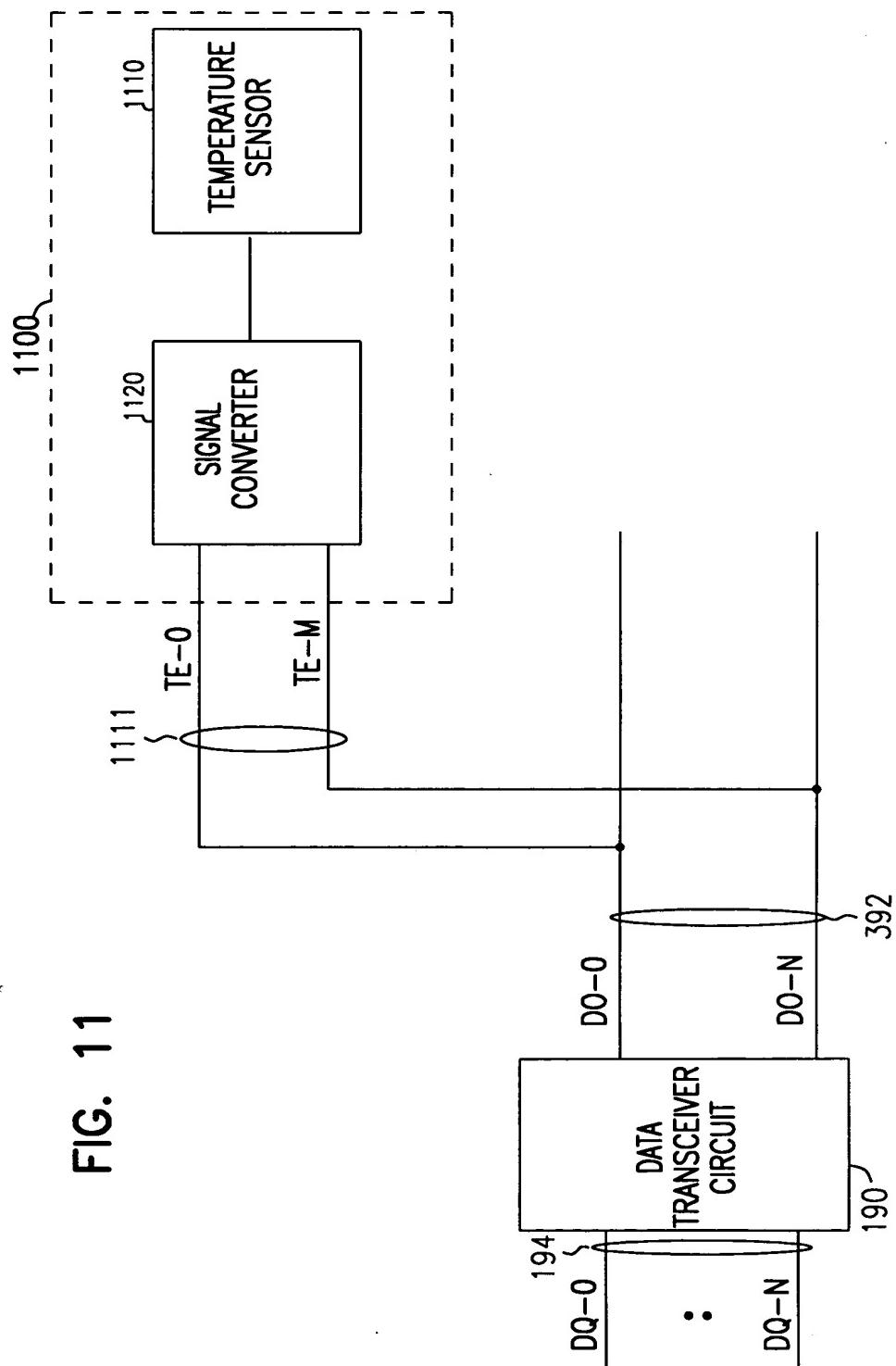


FIG. 11

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COL1 COL2 COL3 COL4 COL5 COL6 COL7 COL8

BITS	TMP							
TE-0	0	0	0	0	0	0	0	0
TE-1	0	0	0	0	0	0	0	1
TE-2	0	0	0	0	0	0	1	1
TE-3	0	0	0	0	0	1	1	1
TE-4	0	0	0	0	0	1	1	1
TE-5	0	0	0	0	1	1	1	1
TE-6	0	0	1	1	1	1	1	1
TE-7	0	1	1	1	1	1	1	1
TEMP °C	0	15	30	45	60	75	90	105

FIG. 12

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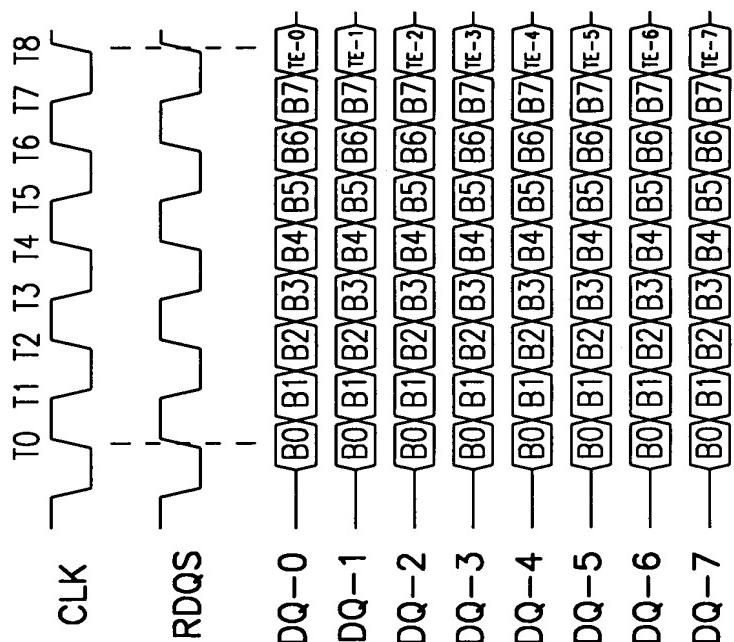


FIG. 13

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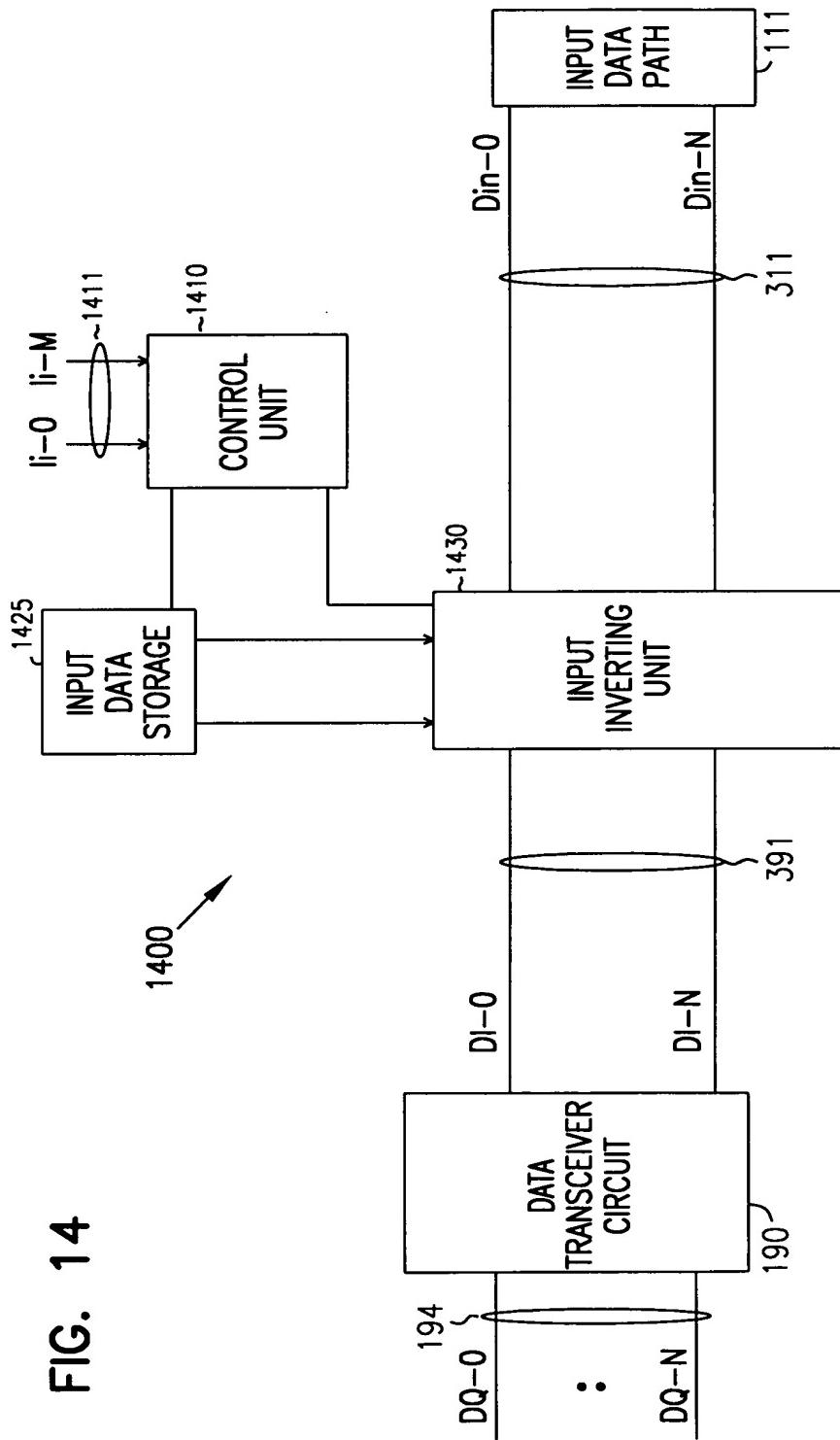


FIG. 14

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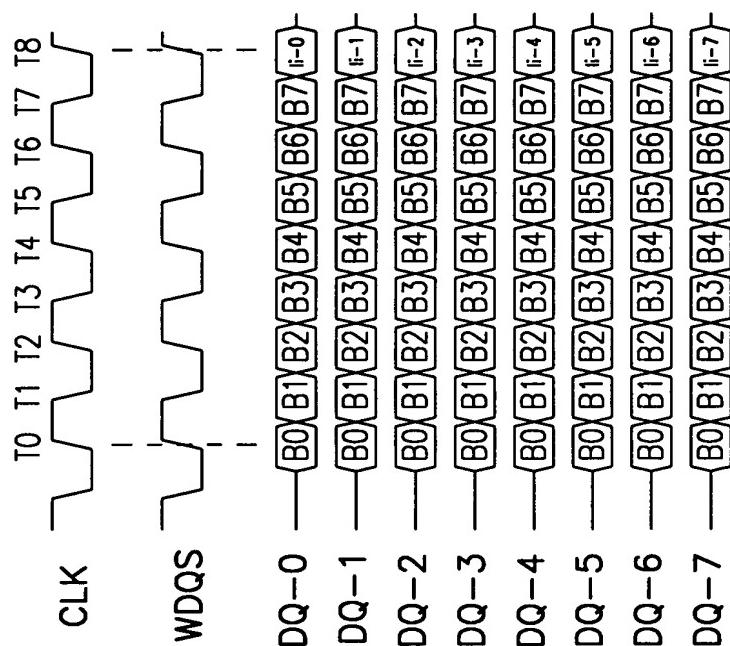


FIG. 15

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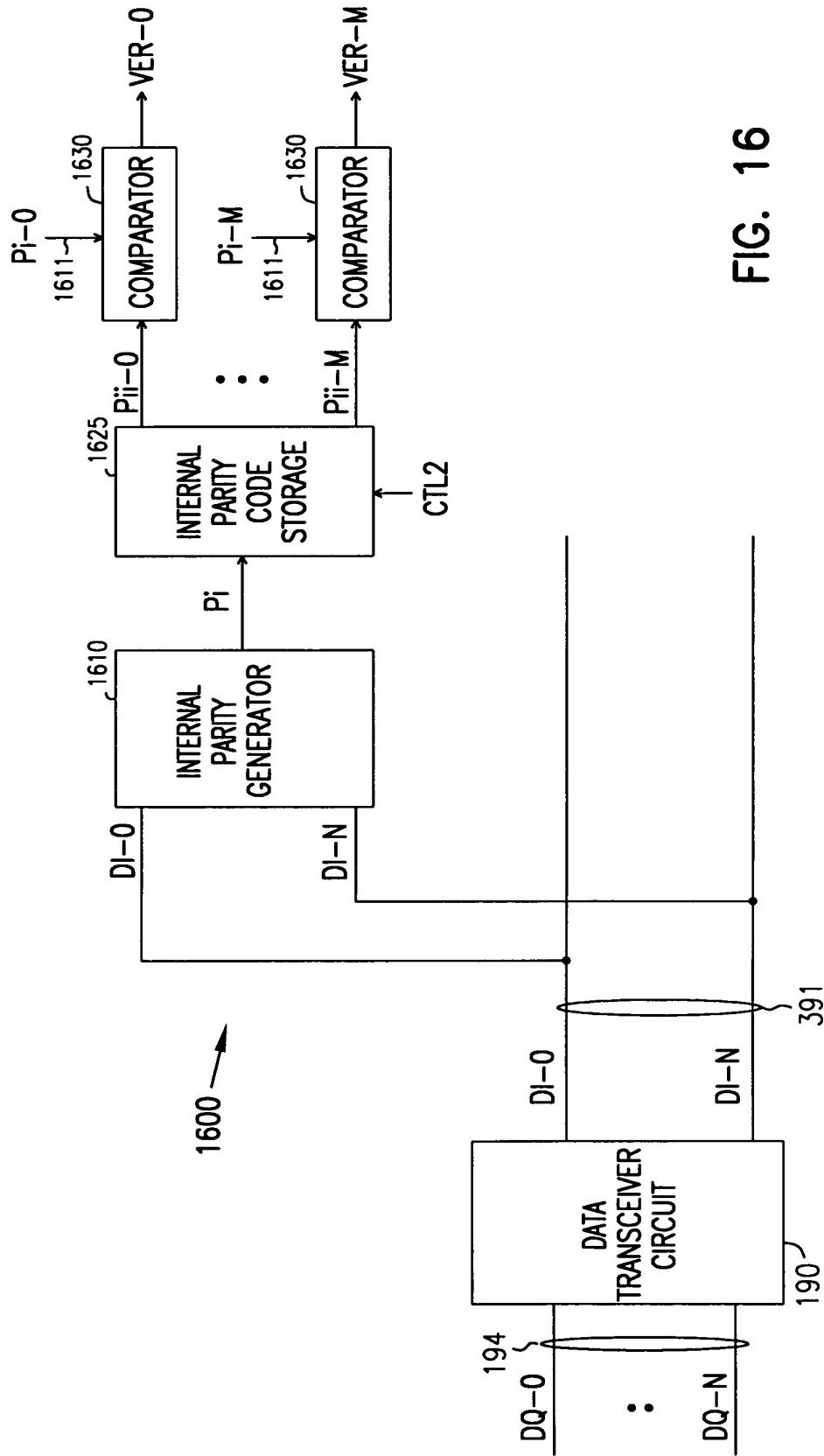


FIG. 16

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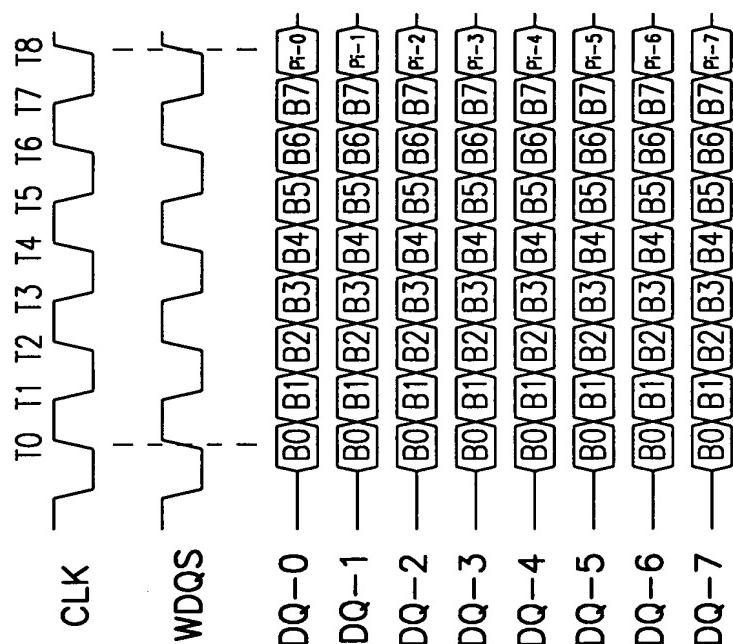
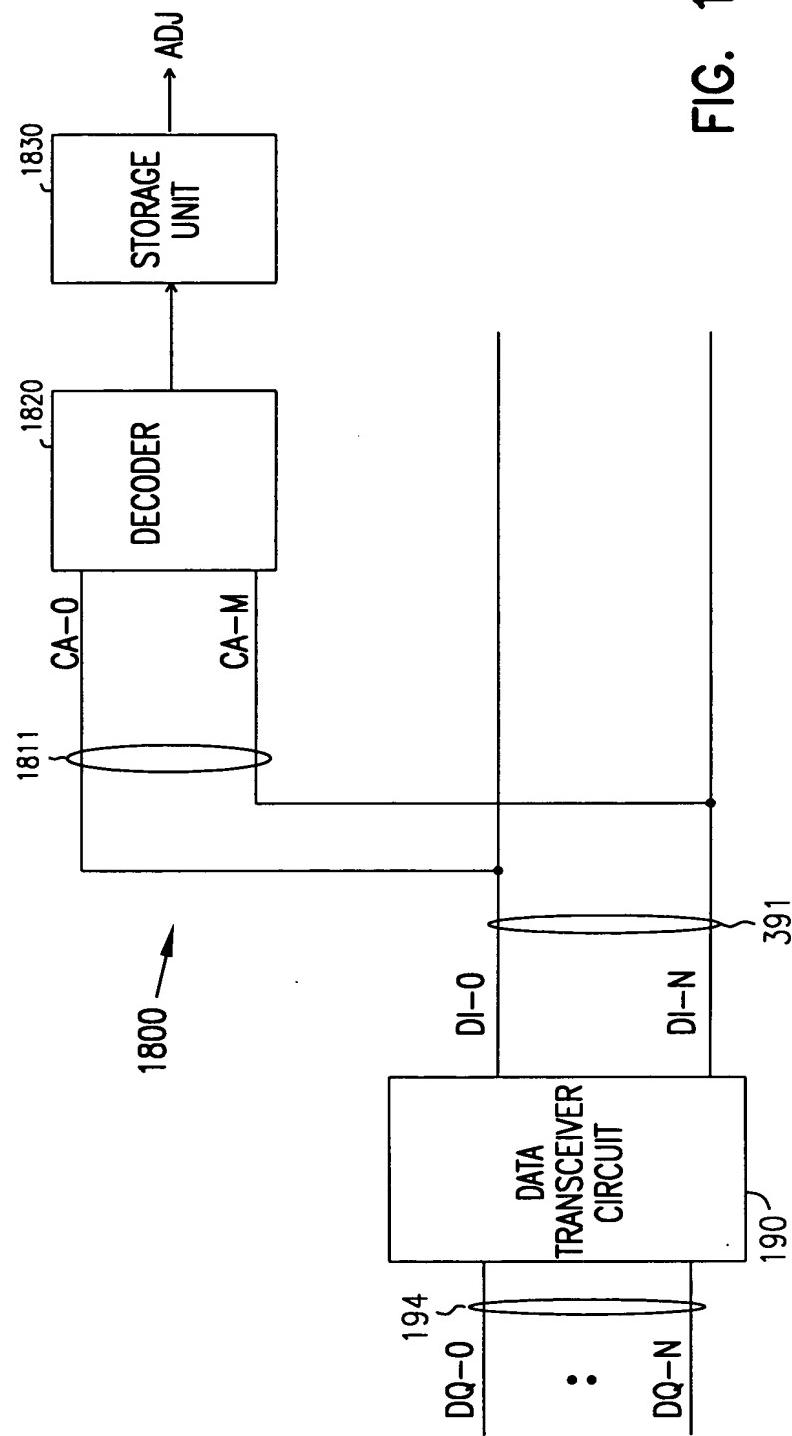


FIG. 17

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FIG. 18



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BITS	COL1	COL2	COL3	COL4	COL5	COL6	COL7	COL8
CA-0	0	0	0	0	0	0	0	0
CA-1	0	0	0	0	0	0	0	1
CA-2	0	0	0	0	0	0	1	1
CA-3	0	0	0	0	0	0	1	1
CA-4	0	0	0	0	0	1	1	1
CA-5	0	0	0	0	1	1	1	1
CA-6	0	0	1	1	1	1	1	1
CA-7	0	1	1	1	1	1	1	1
DELAY	-200	-150	-100	-50	50	100	150	200

FIG. 19

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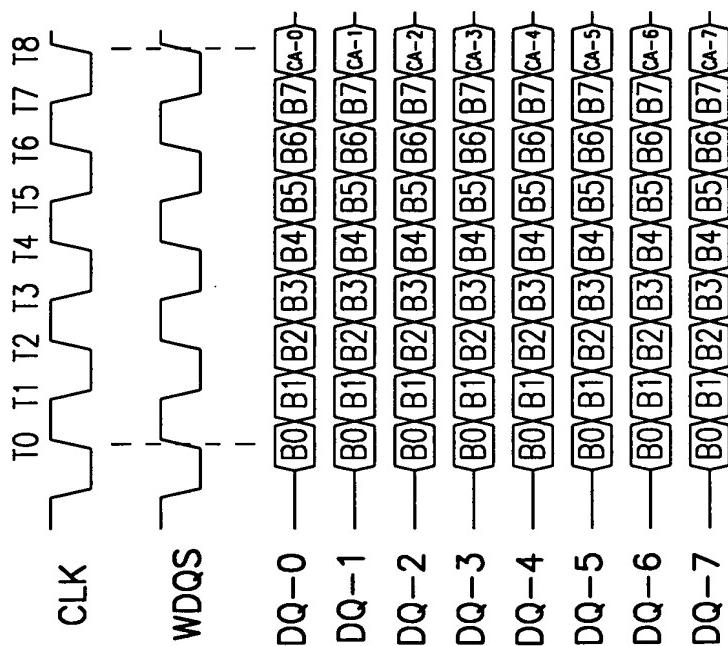


FIG. 20

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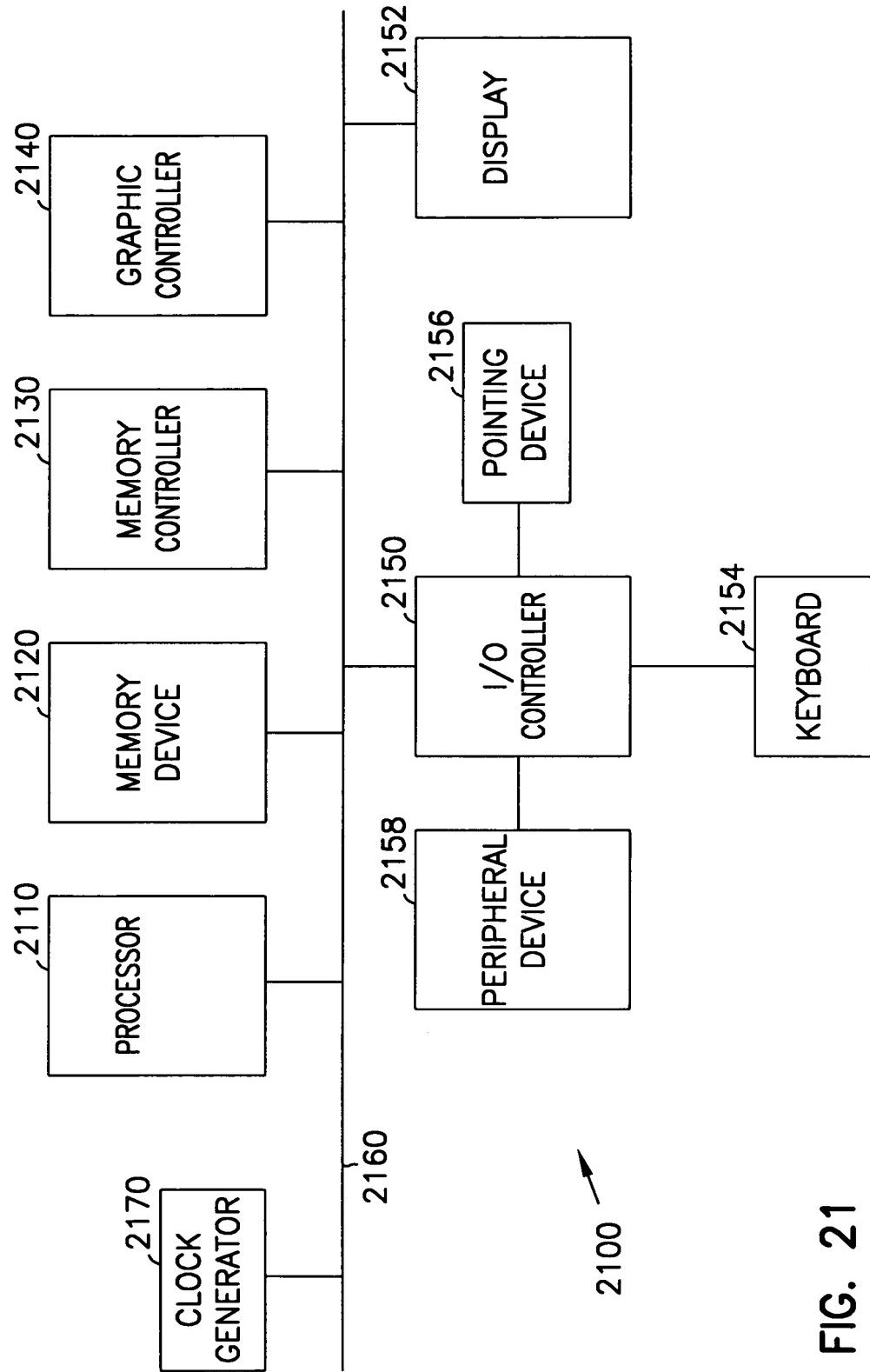


FIG. 21